

MODULE 5a



STT ANALYSIS & DISPLAY OPERATIONS

5a.1

**STT Image
Display**

5a.2

**STT Analysis
Tools**

5a.3

**STT View
Options**

5a.4

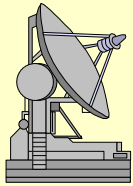
**STT Graphics
Tools**

5a.5

**STT Color
Enhancement**

5a.6

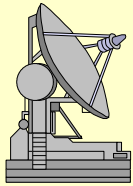
**STT System
Management**



MODULE 5a OBJECTIVES



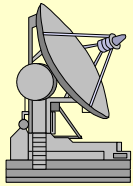
Using the STT training simulator, system manuals, and student workbooks, the student will be able to perform image/product display and analysis and basic system management.



LESSON 5a.1



STT IMAGE/PRODUCT FILE OPERATIONS

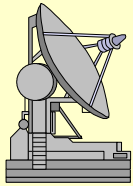


LESSON 5a.1 OVERVIEW



In this section we will cover:

- Loading Images
- Saving Images as Products
- Loading Products
- Load Animation Loops
- Quick Environment Data Records (EDRs)
- Printing Operations
- Sending Mail

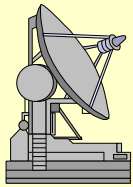


LESSON 5a.1 OBJECTIVES



- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Load an image
 - Save an image as a product
 - Load products
 - Load animation loops
 - Perform Quick EDRs functions
 - Print images and products
 - Send mail



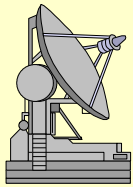


SAVING IMAGES AS PRODUCTS



- Images are saved to disk as products and then reloaded back into the Image Display application as needed.

| Save Product | |
|--|---|
| Class Name <i>A "class" is a grouping of related products.</i> | Product Name <i>A "product" name is a grouping of related DTGs.</i> |
| Saved Class Name <input type="text"/> | Saved Product Name <input type="text"/> |
| DTG: xxxxxxxxxxxx | |
| <input type="button" value="OK"/> | <input type="button" value="Cancel"/> <input type="button" value="Help"/> |

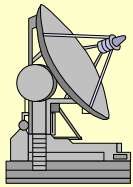


LOADING PRODUCTS



- The operator is able to load and display a previously saved product back into the Image Display application.

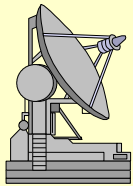
| Load Product - Overwrite: NONE | | |
|---|--------------|------------------------------------|
| Class Name | Product Name | DTG |
| Infrared Visible Water_vapor Other | User-Defined | 941104_1134_N12 941104_0048_N12 |
| Work Window 4 | | |
| OK | Cancel | Help |



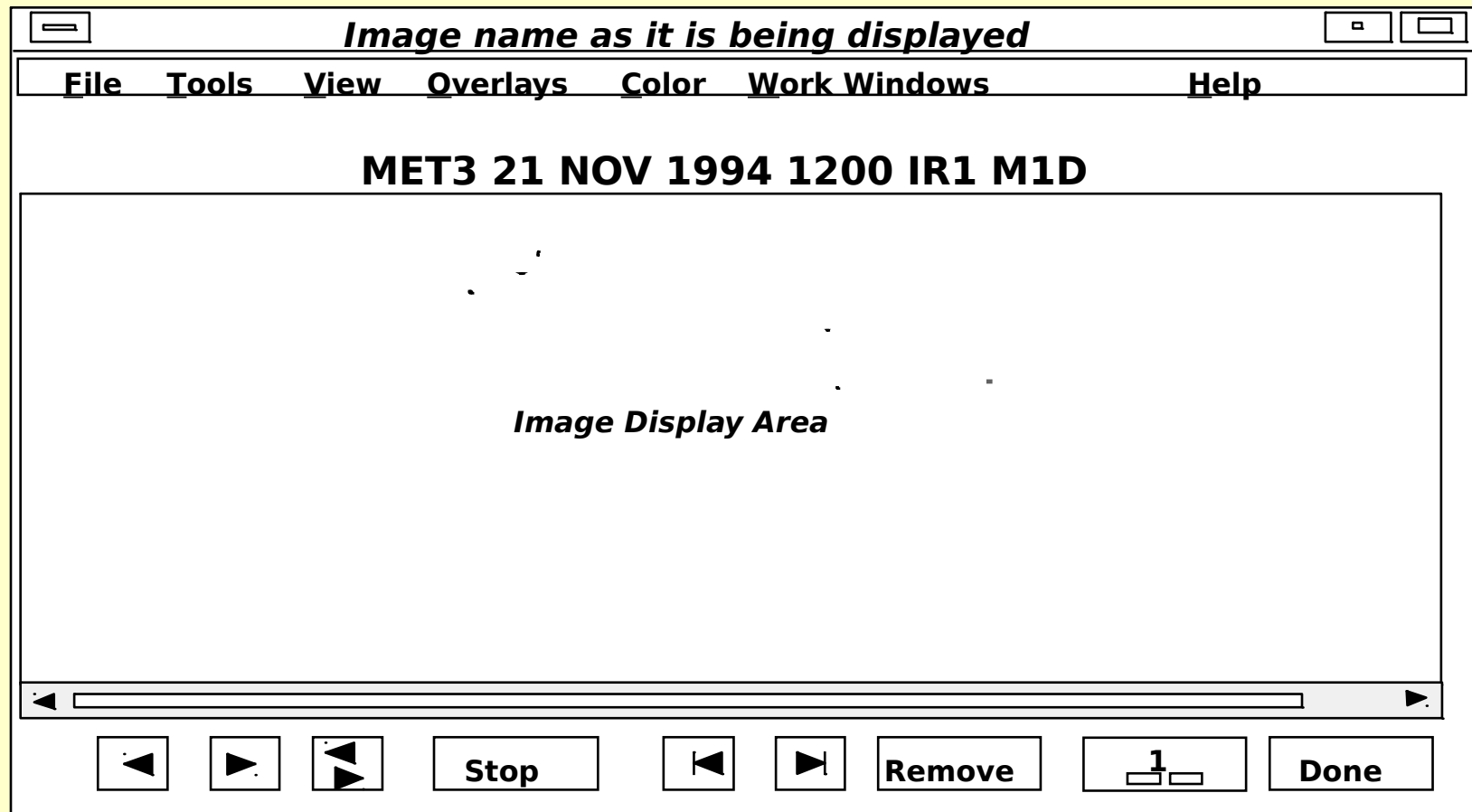
LOAD ANIMATION LOOP WINDOW



| Load Animation Loop | | | |
|---|---|---------------------------------------|--|
| Data Type <input type="text" value="WEFAX"/> | | | |
| Projection | Channel | Sector | DTG |
| Satellite | Infrared Visible Water_Vapor Other | NE NW SE SW US | 951101_1302_G8 951101_1030_G8 951101_0702_G8 |
| ZOOM <input type="checkbox"/> On <input checked="" type="checkbox"/> Off MAPS <input checked="" type="checkbox"/> On <input type="checkbox"/> Off Number Selected <input type="text" value="16"/> | | | |
| <input type="button" value="OK"/> | <input type="button" value="Maps. . ."/> | <input type="button" value="Cancel"/> | <input type="button" value="Help"/> |

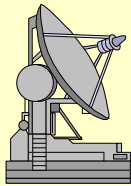


ANIMATION WINDOW AND LOOP CONTROLS



MODULE 5a

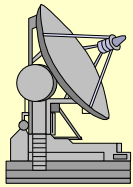
5a-10



CREATE QUICK EDR WINDOW



| Create Quick EDR Overwrite: Image Display | | | | |
|---|--|---|--|---|
| <div><div>Data Type</div><div>DMSP APT HRGEO HRPT</div></div> | | | | |
| <div><div>Projection</div><div>Satellite PSN PSS Mercator</div></div> | <div><div>EDR Category</div><div>Quick_EDR UserDef_EDR UserDef_Visir</div></div> | <div><div>EDR Type</div><div>Cloud_Liq_Water Ice_Age Ice_Concent Ice_Edge Rain_Rate_Land Sfc_Temp_Land Sfc_Wind_Acc</div></div> | <div><div>Available DTGs</div><div>951121_1425_F12 951119_2214_F11</div></div> | |
| <div><div>Work Window</div><div>1</div></div> | | <div><div>Generate Foreground</div><div>Generate Background</div></div> | | |
| <div><div>Close</div></div> | | <div><div>Edit Quick EDR...</div></div> | | <div><div>Edit User Defined..</div></div> |
| <div><div>Help</div></div> | | | | |



PRINT WINDOW



Print

Picture Size

- ☐ Use Screen Resolution
- ☐ Use Printer Resolution

Crop Options

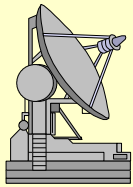
- ☐ Don't Crop
- ☐ Crop off Right Side
- ☐ Crop off Left Side

OK

Cancel

Clear Queue . . .

Help



SENDING MAIL



Mail

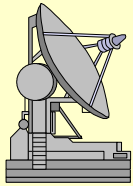
E-mail address

Subject

Description

OK Cancel Help

Errors in sending mail are found in the Error and Status logs under **mail_handler**.

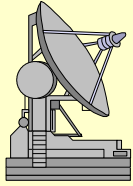


LESSON 5a.1 REVIEW



In this section we covered:

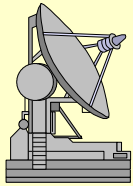
- Loading Images
- Saving Images as Products
- Loading Products
- Animation Loops
- Quick Environment Data Records (EDRs)
- Printing Operations
- Sending Mail



LESSON 5a.2



STT ANALYSIS TOOLS

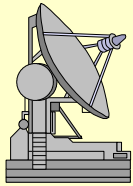


LESSON 5a.2 OVERVIEW



In this section we will cover

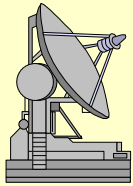
- Histograms
- Skew-T Diagram
- Changing Projections
- Applying False Color
- Applying Filters



LESSON 5a.2 OBJECTIVES



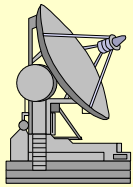
- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Apply Histograms to enhance imagery
 - Use the Skew-T function to further analyze imagery
 - Change the projection of displayed images
 - Apply false color to displayed images
 - Apply filters to enhance displayed images



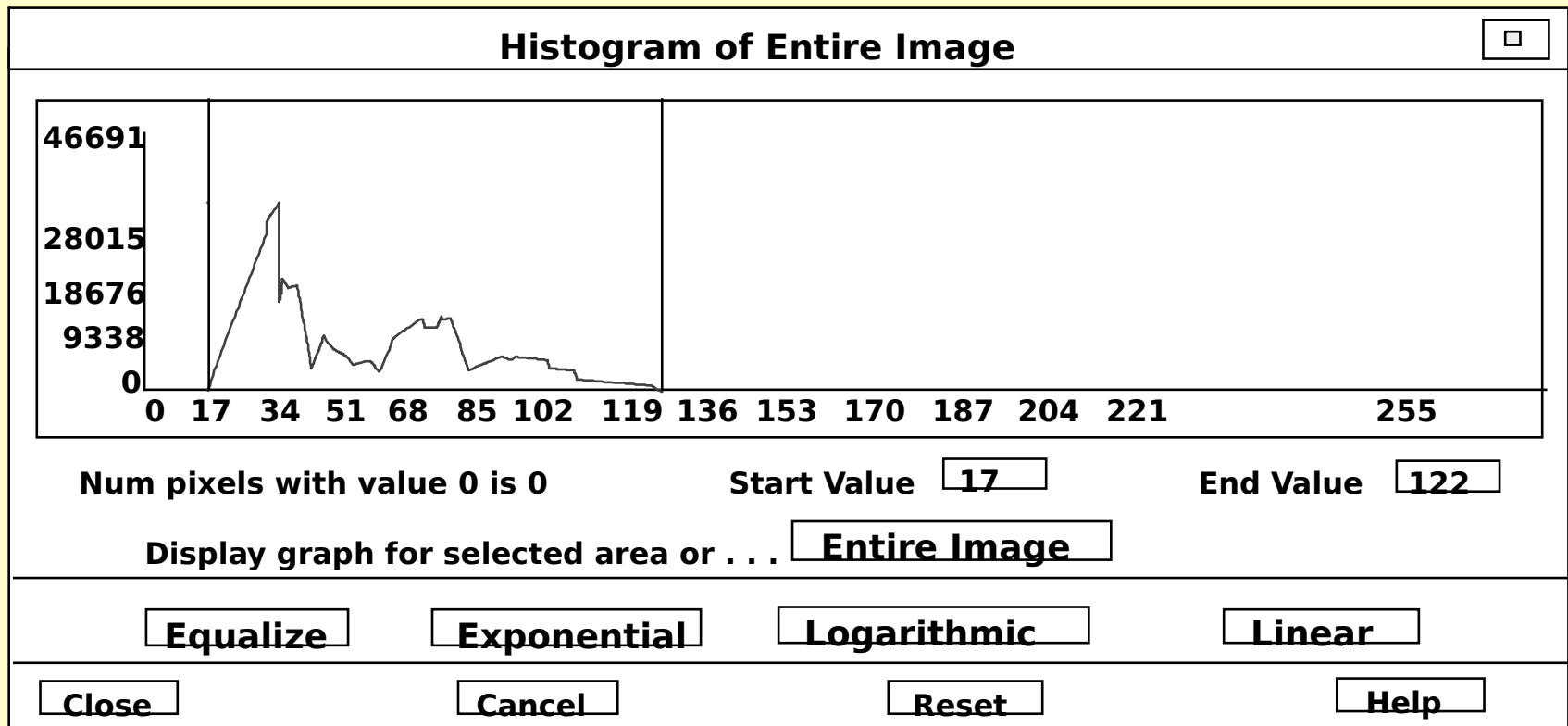
HISTOGRAM (pt 1 of 4)

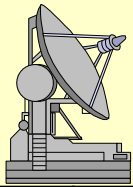


- Concentrates all 256 gray shades into the pixels that are actually used by that image.
- Greatly increases contrast and sharpens the image.
- Can be used to highlight specific temperatures or gray shades.
- You can histogram the entire image or you can select an image area by “clicking and dragging” a box in the image area.

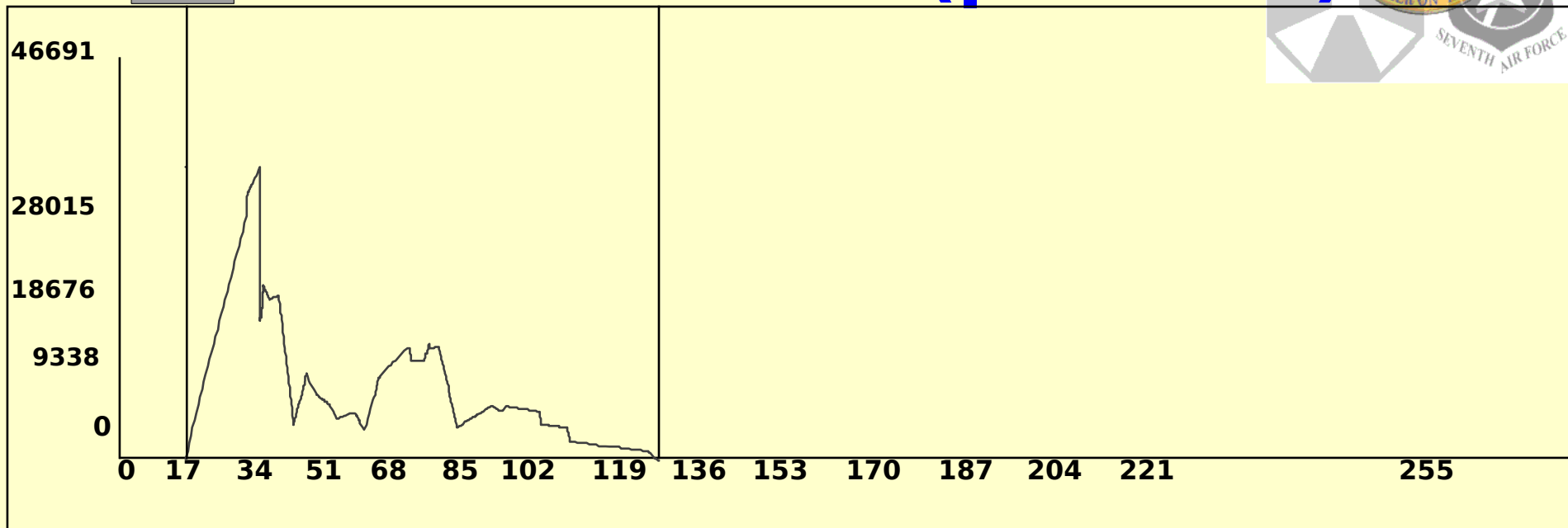


HISTOGRAM WINDOW

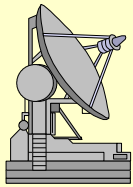




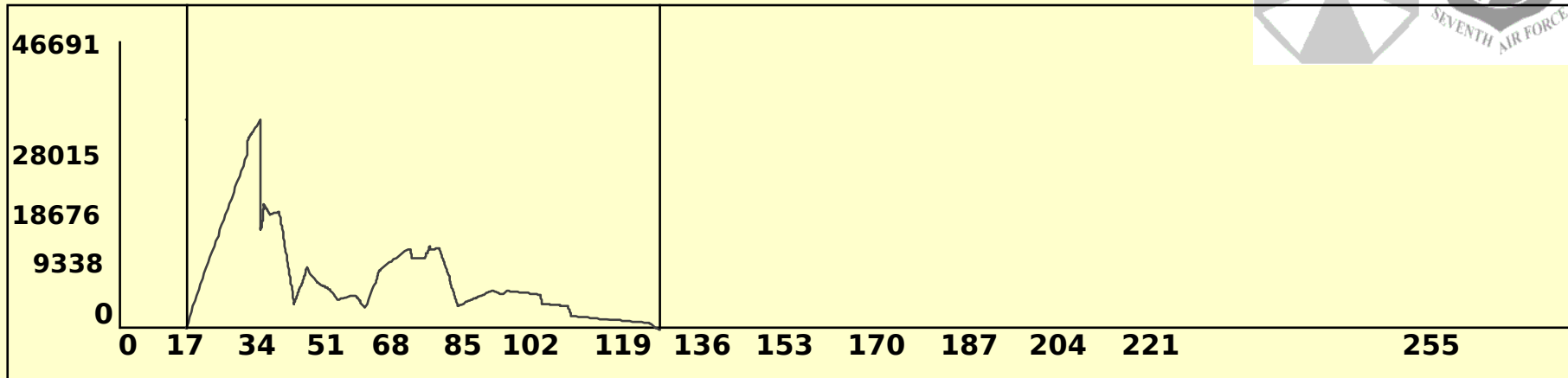
HISTOGRAM (pt 2 of 4)



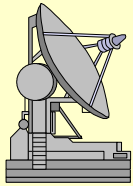
- To interrogate a pixel value, move the cursor over the pixel or temperature value that you want to interrogate, and read the pixel count window below.
- To select the range that you want to histogram, select the start and end points using the left and middle mouse button.



HISTOGRAM (pt 3 of 4)



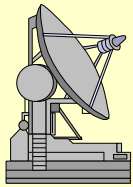
- Once you have selected an area, you can select one of four histogram options.
- With a linear histogram, the pixels with values of 17-34 will be assigned more shades than the pixels with values of 68-85.
- With an equalize histogram, everything to the left of the start position will be pure black, everything to the right of the end value will be pure white, and the remaining 254 shades will be assigned to the pixels in between.



HISTOGRAM (pt 4 of 4)



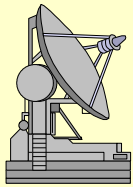
- The logarithmic histogram uses a logarithmic curve, with emphasis on the black and gray shades. This is best used to highlight lower-level features.
- The exponential histogram uses a exponential curve, with emphasis on the gray and white shades. This is best used to highlight upper-level features.



SKEW-T SCENE SELECTION WINDOW



| Skew-T Scene Selection | | |
|---|---------------------------------|---------------------------------|
| Lat: Lon: Time: | Scene 1 data | Scene 2 data |
| | 26.02N 83.14W 940322_2312 | 26.73N 81.20W 940322_2313 |
| | <i>left button</i> | <i>middle button</i> |
| <div>Close</div> <div>Analyze</div> <div>Help</div> | | |



CHANGE PROJECTION WINDOW



Change Projection

Projection
PSN ☐

Proj Avail
Yes ☐
No ☐

OK

Cancel

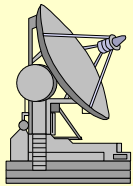
PSN
PSS
Mercator
Satellite

Confirmation Request

? The requested projection is not available.
Do you want to create the projection?

OK

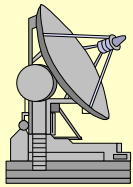
Cancel



FALSE COLOR WINDOW



| | |
|--|--|
| False Color: HRPT-PSN-Channel_5-4:1-941129-0148-N12 | |
| Channel | |
| <div>Channel_1 Channel_2 Channel_3 Channel_4 Channel_5</div> | <div></div> |
| Red Image | HRPT-PSN-Channel_5-4:1-941129-0148-N12 |
| Green Image | HRPT-PSN-Channel_3-4:1-941129-0148-N12 |
| Blue Image | HRPT-PSN-Channel_3-4:1-941120-1248-N12 |
| OK | Default Cancel Help |



FILTER WINDOW



Filter

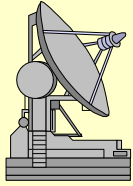
Filter
High_pass_sharp
High_pass_sharper
High_pass_sharpest
Low_pass_smooth
Low_pass_smoother
Low_pass_smoothest

Filter

Close

Cancel

Help

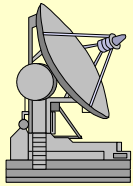


LESSON 5a.2 REVIEW



In this section we covered:

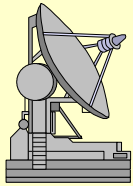
- Histograms
- Skew-T
- Changing Projections
- Applying False Color
- Applying Filters



LESSON 5a.3



VIEW OPTIONS

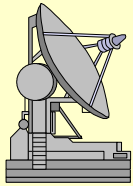


LESSON 5a.3 OVERVIEW



In this section we will cover

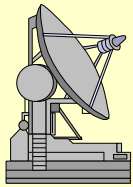
- Changing Units
- Determining Distances
- Positioning the Cursor
- Zoom Functions
- Color Bar



LESSON 5a.3 OBJECTIVES



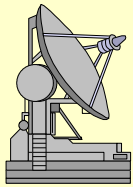
- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Change the units of the displayed image
 - Determine distance on the displayed image
 - Position the cursor through menu commands
 - Zoom displayed images
 - Access the color bar on displayed images



CHANGING UNITS



| Change Units |
|--|
| <p>Brightness Temperature</p> <div><div>Kelvin</div><div></div></div> |
| <div>Close</div> |



DISTANCE WINDOW

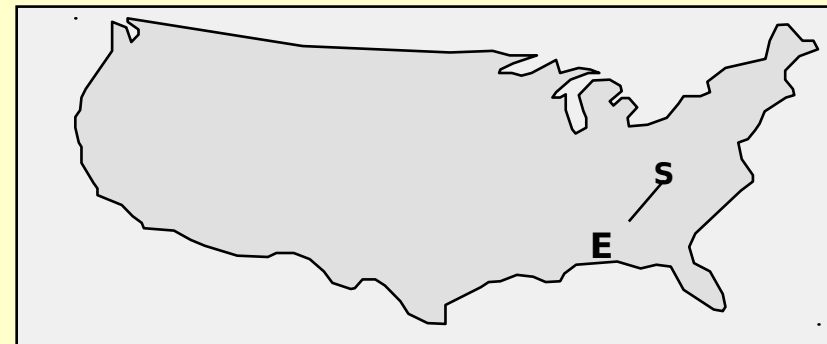


Distance Between Points

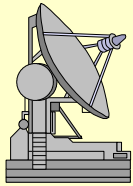
| | |
|---|---|
| Lat <input type="text" value="42.50N"/> | Lat <input type="text" value="40.63N"/> |
| Lon <input type="text" value="72.05W"/> | Lon <input type="text" value="74.81W"/> |
| Left Button | Middle Button |

Distance

Azimuth



Nautical Miles
Kilometers
Miles
Degrees

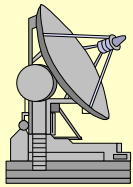


POSITION CURSOR WINDOW

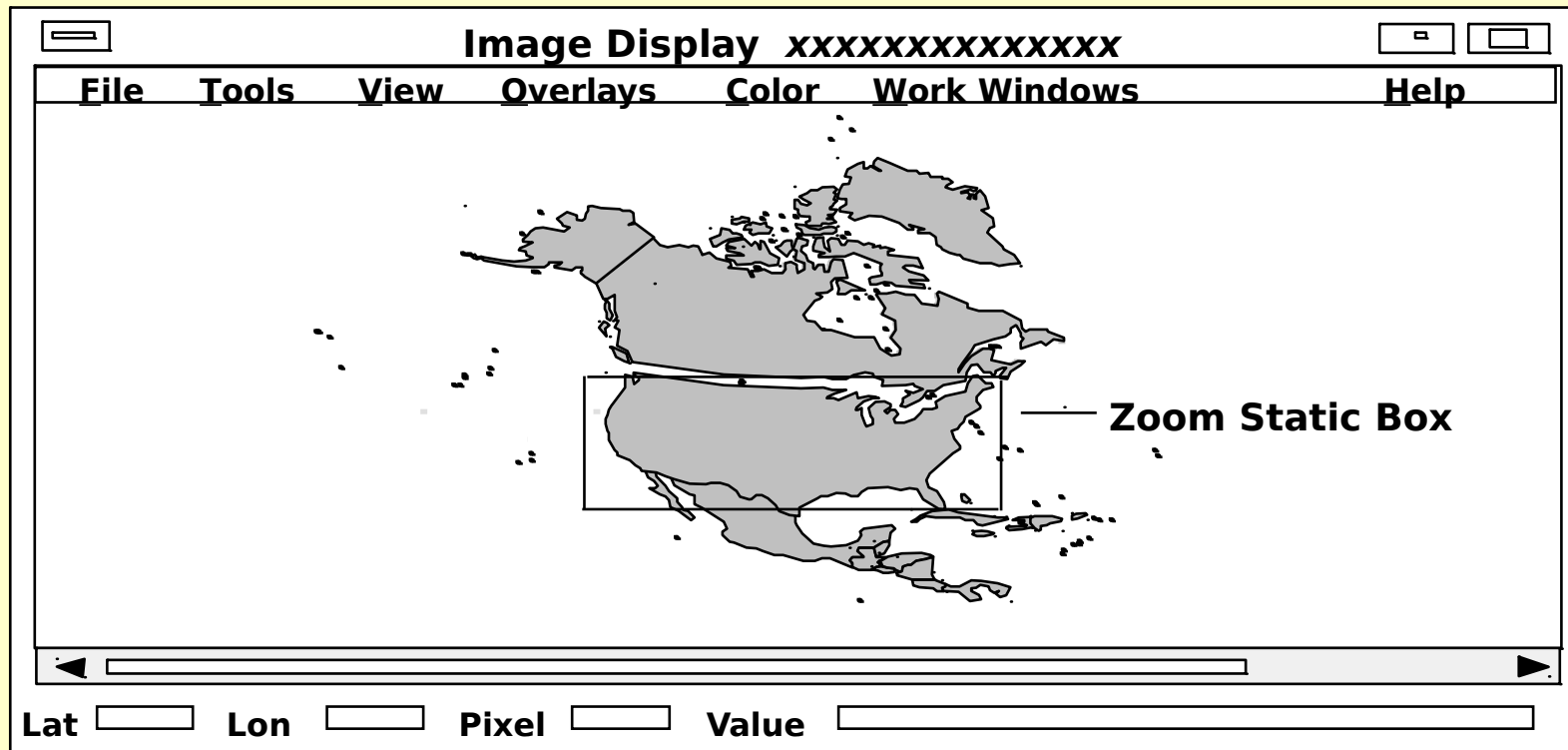


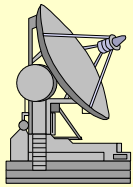
| Position Cursor | | | |
|---|----------------------|--------------------|--|
| Latitude | <input type="text"/> | Fractional Degrees | |
| Longitude | <input type="text"/> | Fractional Degrees | |
| <div><input type="button" value="OK"/> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/></div> | | | |

The system allows values with three decimal points of precision requires the hemisphere to be provided.

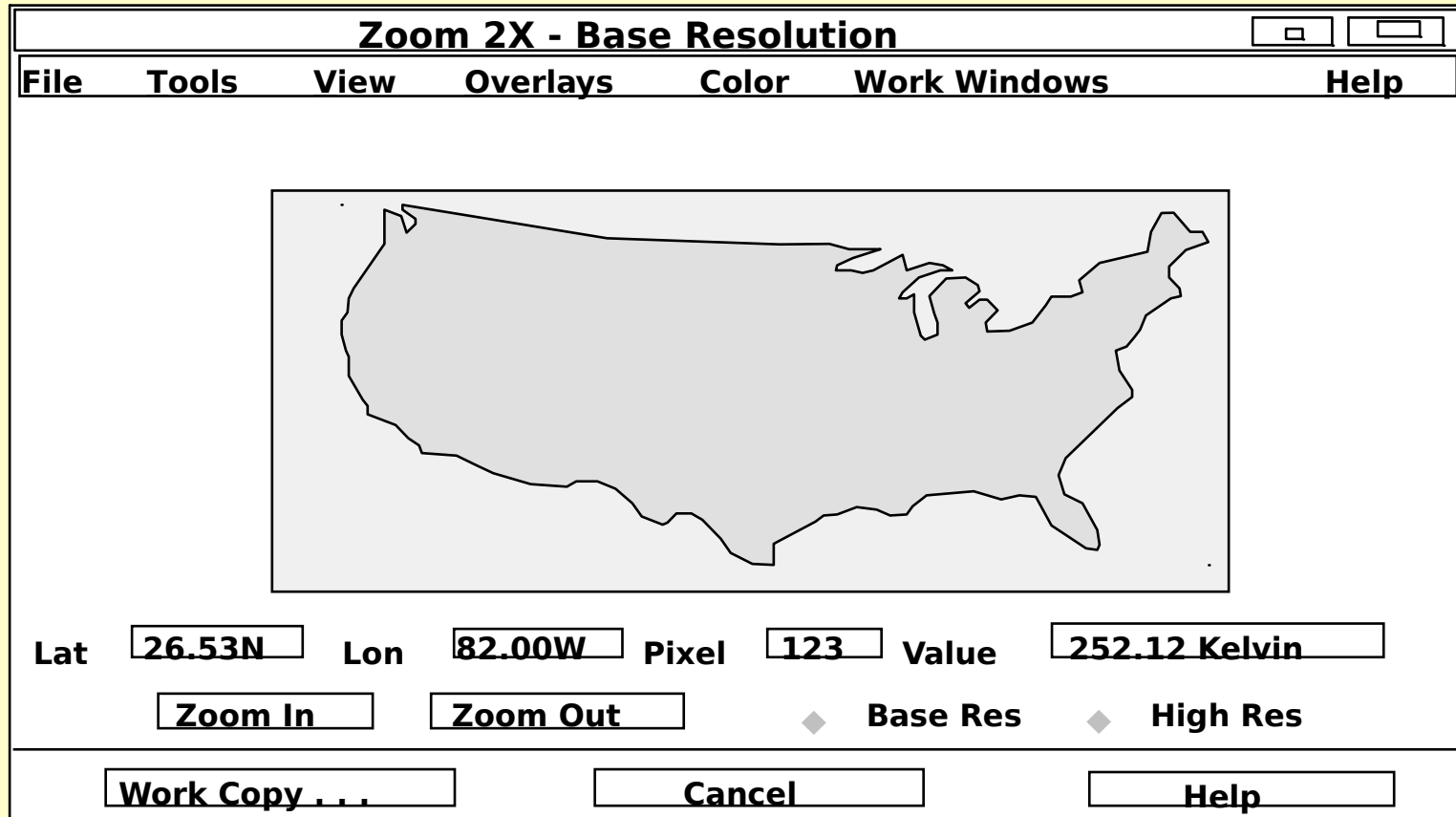


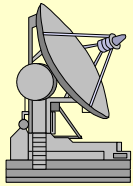
ZOOM AN IMAGE





ZOOM DISPLAY WINDOW

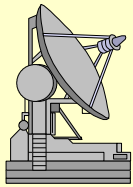




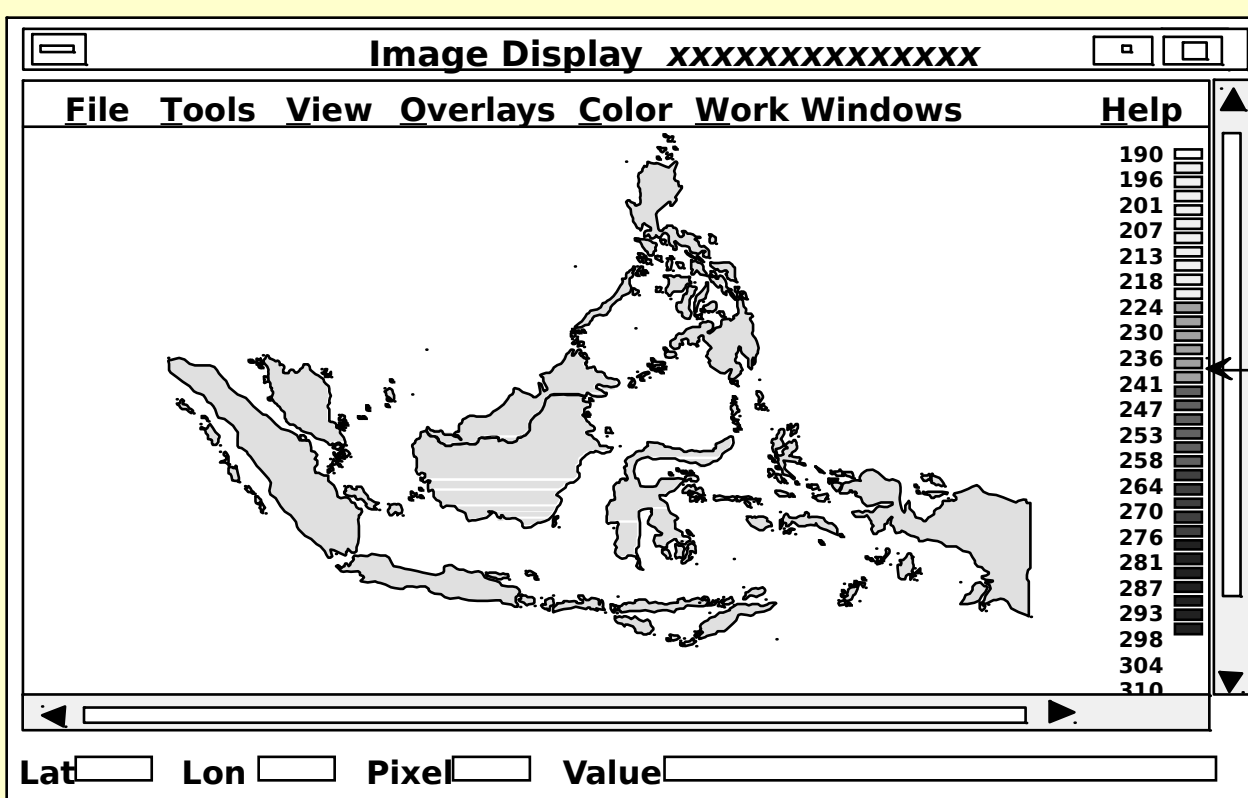
LOOPING WITH HISTOGRAMS AND COLOR



- Before loading the animation loop, make sure the zoom feature is on.
- Zoom window will appear.
- At this point you can color or histogram and select OK.
- Changes will then be applied to the entire loop.

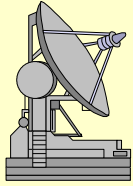


COLORBAR



Color Bar
(approximate
temperatures)

*Represents calibrated
values when available;
pixel values when not.*

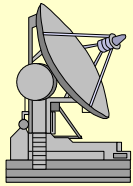


LESSON 5a.3 REVIEW



In this section we covered:

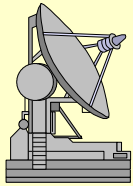
- Changing Units
- Determining Distances
- Positioning the Cursor
- Zoom Functions
- Color Bar



LESSON 5a.4



APPLYING GRAPHICS TOOLS

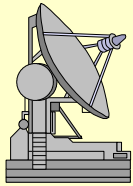


LESSON 5a.4 OVERVIEW



In this section we will cover

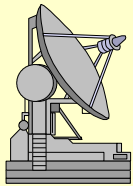
- Annotate and Draw Functions
- Overlaying EDR Products
- Overlay List Management
- Product Specifications
- Shifting Overlays
- Manipulating Color



LESSON 5a.4 OBJECTIVES



- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Use Annotate and Draw functions to further enhance and analyze displayed images
 - Apply EDR products to displayed images
 - use overlay
 - Load, save and manipulate product specifications
 - Shift overlays displayed on the images



ANNOTATE AND DRAW CONTROL WINDOW



Draw Group: default

| | | |
|--|---|---|
| Edit Mode Add <input type="checkbox"/> | Forms Line <input type="checkbox"/> | Coord Mode Lat/Lon <input type="checkbox"/> |
|--|---|---|

Line Types

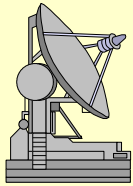
Smooth ☐ Drawing Style ☐ Freehand

MOUSE ASSIGNMENTS

| | | |
|------------------|----------------|--------------|
| LEFT: Draw/Point | MIDDLE: Accept | RIGHT: Erase |
| Erase | Color | Accept |
| Close | Group . . . | Help |

Annotations:

- Add Delete
- Lat/Lon Screen
- Line Label Symbol
- Smooth Unsmooth
- Freehand Pt to Pt



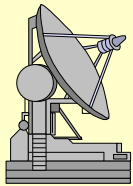
CREATING GROUPS



| Define Group Name | | |
|-----------------------------------|---------------------------------------|-------------------------------------|
| <input type="text"/> | | |
| <input type="button" value="OK"/> | <input type="button" value="Cancel"/> | <input type="button" value="Help"/> |

Groups are normally created when their use can be applied to more than one occurrence.

You must define the group name before you start editing the image.

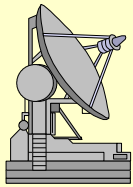


PRODUCT OVERLAYS WINDOW



| Product Overlays | | | | |
|--|---|--|----------------|--|
| Overlay | | <input checked="" type="checkbox"/> Contours <input type="checkbox"/> Streamlines <input type="checkbox"/> Windbarbs | | |
| Data Source | Type | Level 1 | Level 2 | |
| T-1/T-2 SSMI_EDR Quick_EDR UsrDefEDR | <input type="checkbox"/> Dew_point_Dpr <input type="checkbox"/> Gridded_Temp <input type="checkbox"/> Hght_Cnst_Pres <input type="checkbox"/> Pres_at_Trop | 1000 850 700 500 | | |
| Units Meters | Overlay Data Exists YES | | | |
| <input type="checkbox"/> Threshold Base | 4800 | Above | | |
| Interval | 60 | Smooth Unsmooth | | |
| | | Save Defaults | | |
| Close Apply List . . . Data . . . Help | | | | |

Above
Below
Equal
Outside
Between

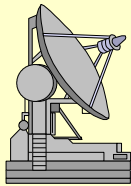


OVERLAY LIST WINDOW



| Overlay List | | | |
|---|---------------------------------------|-------------------|-------------|
| Currently Selected Overlays | | | |
| <input type="checkbox"/> Lat/Lon <input type="checkbox"/> Land/Sea <input type="checkbox"/> Lakes/Rivers <input type="checkbox"/> Geopolitical <input type="checkbox"/> Station Position <input type="checkbox"/> Age Composite Map <input type="checkbox"/> Contour, DewPoint, Lvl500, Base -100., Int 10., Smooth | <div>▲</div> <div></div> <div>▼</div> | | |
| Image ♦ On ♦ Off | | | |
| Close | Apply | Purge List | Help |

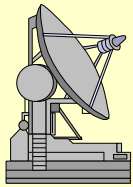
Note: Purge list permanently deletes all the toggled off entries. Maps and Images aren't affected.



SAVE PRODUCT SPECIFICATIONS



| Save/Delete Product Specifications | |
|--|---|
| Class Name | Product Specification Name |
| <div>ARTRACKS carl carl2 carl3</div> | <div>300_SERIES</div> |
| Saved Class Name | Saved Product Specification Name |
| <div>ARTRACKS</div> | <div>300_SERIES</div> |
| <div>Close</div> | <div>Save</div> |
| <div>Delete</div> | <div>Help</div> |



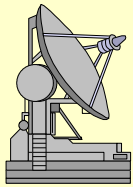
LOADING PRODUCT SPECIFICATIONS



- The user can load a previously saved EDR Product overlay and items created with the Annotate and Draw functionality (Groups) and apply it to image currently displayed.

| Load Product Specification | |
|----------------------------|----------------------------|
| Class Name | Product Specification Name |
| ARTRACKS | carl1 |
| car1 | carl1_with_skew_t |
| car12 | corners |
| car13 | kathy_edr_500+850 |
| csc_test | kathy1and2 |
| csc_test.tar | kathy_edr_500 |
| eric | |
| misc | |

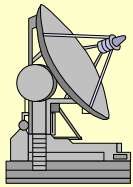
☐ Append Specification ☐ Replace Specification



DELETE PRODUCT SPECIFICATIONS



| Save/Delete Product Specifications | |
|--|---|
| Class Name | Product Specification Name |
| <div>ARTRACKS carl carl2 carl3</div> | <div>300_SERIES</div> |
| Saved Class Name | Saved Product Specification Name |
| <div>ARTRACKS</div> | <div>300_SERIES</div> |
| <div>Close</div> | <div>Save</div> |
| <div>Delete</div> | <div>Help</div> |



SHIFT OVERLAYS



- The operator is able to move overlays drawn in Lat/Lon space to the right, left, up or down to better match the true boundaries displayed on a satellite image. Symbols, lines and labels drawn in Screen mode are not adjusted.

Shift Overlays

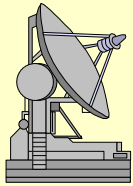
Shift Overlays
Use left mouse button to select start position
Use middle mouse button to select end position

Then press Shift button

Close

Shift

Help

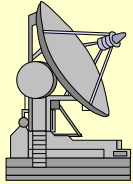


LESSON 5a.4 REVIEW



In this section we covered:

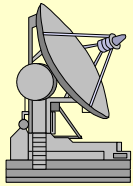
- Annotate and Draw Functions
- EDR Product Overlay Functions
- Using Overlays
- Product Specifications
- Shifting Overlays



LESSON TOPIC 5a.5



COLOR OPTIONS

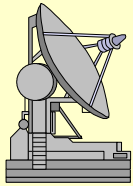


LESSON 5a.5 OVERVIEW



In this section we will cover

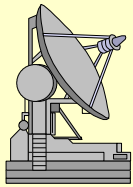
- Loading Color Tables
- Modifying and Saving Color Tables
- Deleting Color Tables and Restoring Images



LESSON 5a.5 OBJECTIVES



- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Load color tables on displayed images
 - Modify, save and delete color tables
 - Restore images



LOAD COLOR WINDOW



Load Color

Color Table

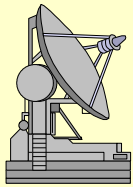
| |
|-----------------|
| Cloud_Liq_Water |
| HRPT_1 |
| HRPT_IR2 |
| HRPT_VIS1 |
| HRPT_VIS2 |

Apply

☐ Standard ☒ User Defined ☐ Default

Close **Cancel** **Help**





SAVE COLOR TABLE WINDOW



Save Color

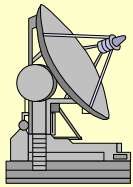
Save As . . .

Color Table Name

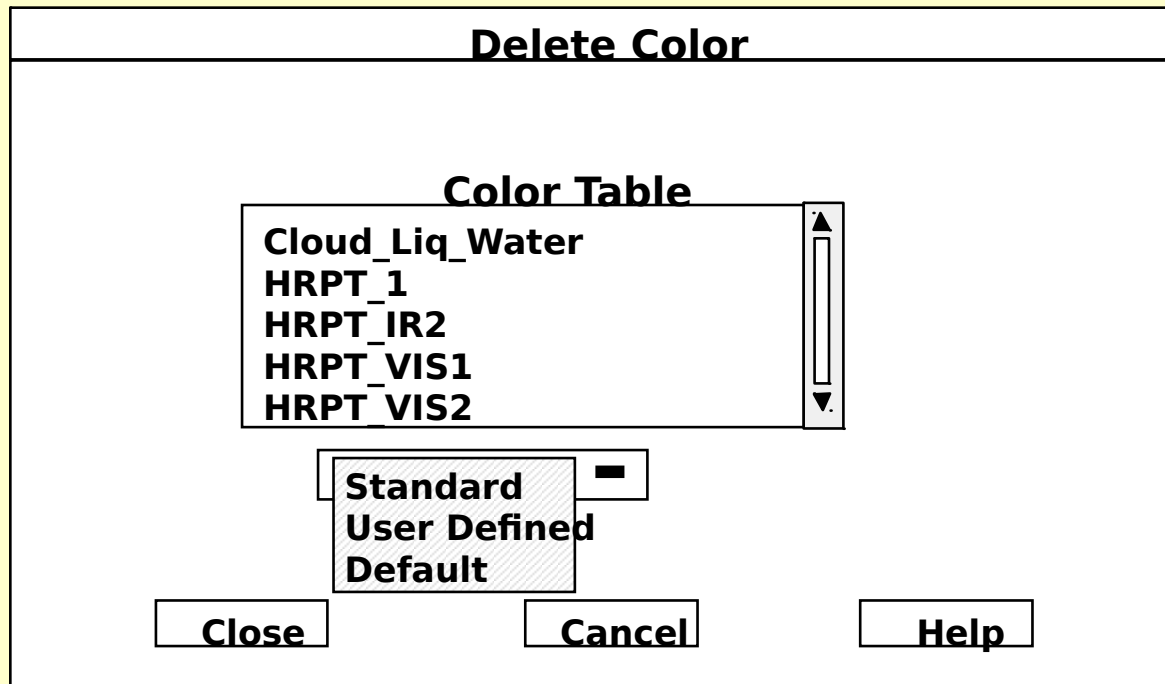
OK **Cancel** **Help**

**User Defined
Default
Standard**

**Default - For Image Category
Default - For Image Type
Default - For Satellite Type**

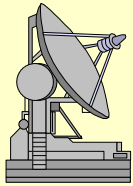


DELETE COLOR TABLE WINDOW/RESTORE IMAGE



A Confirmation Request window is not available for deleting a User Defined Color Table.

Restore Image is used to restore any manipulated image (except False Color) to its original state.

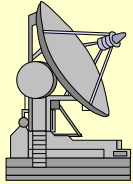


LESSON 5a.5 REVIEW



In this section we covered

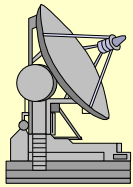
- Loading Color Tables
- Modifying and Saving Color Tables
- Deleting Color Tables
- Restoring Images



LESSON 5a.6



SYSTEM MANAGEMENT

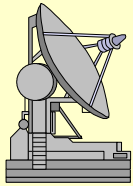


LESSON 5a.6 OVERVIEW



In this section we will cover:

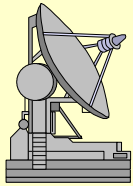
- Archiving and Restoring
- Manual Archiving
- Restoring Images and Products
- Deleting Images and Products
- Purging
- Changing system Default Units
- Network Table
- PI Set Definition



LESSON 5a.6 OVERVIEW (pt 2 of 2)



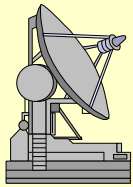
- Product Generation Schedule
- Status and Error Logs
- System Security and Classification
- System Purge and Reload



LESSON 5a.6 OBJECTIVES



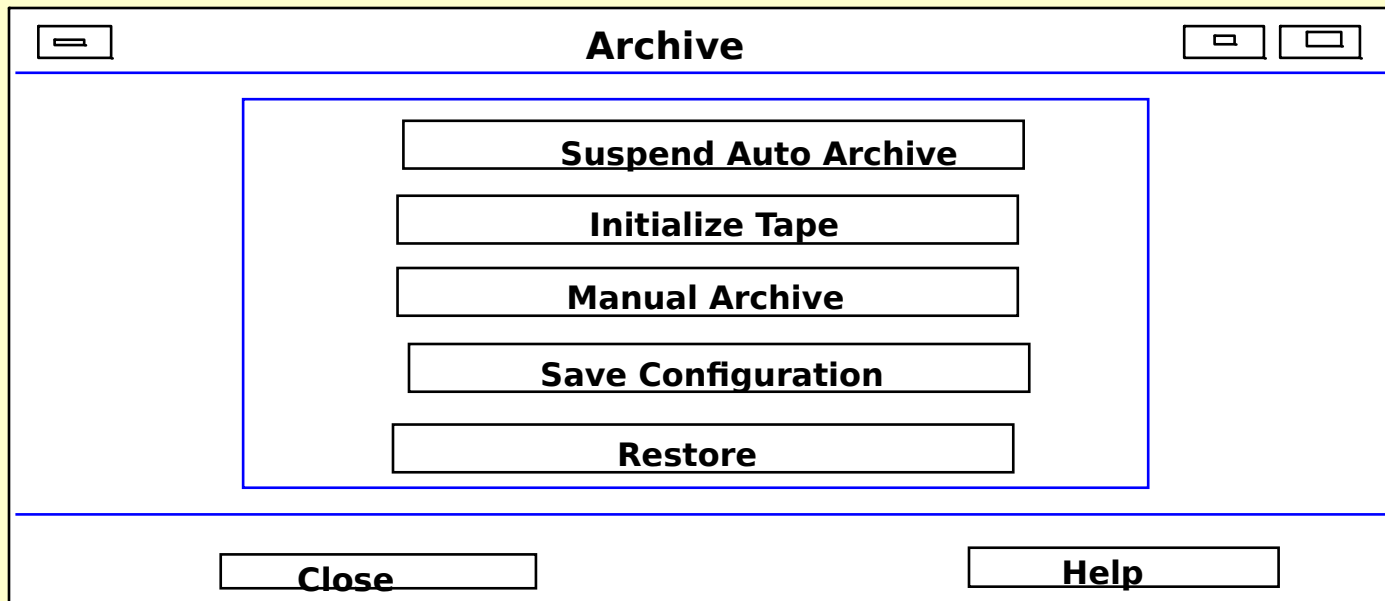
- Using the STT training simulator, system manuals, and student workbooks, the student will be able to:
 - Access, change and apply archive and restore functions
 - Delete images and products
 - Set-up and apply purge parameters
 - Access and manipulate the disk status window, default units , Network Table and PI set window.
 - Set-up and apply product generation and distribution tables
 - Access and understand the log viewer
 - Identify security requirements and conduct purge and reload functions as well as classification changes

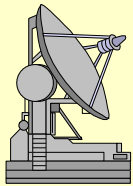


ARCHIVE AND RESTORE



- The operator is able to save and restore images and product data to and from tape or disk. The operator is also able to save configuration files to floppy or tape.





MANUAL ARCHIVE WINDOW

Manual Archive

Archive To ☐ Tape ☒ Disk

Filter

Directories
/home/base/image
/home/base/image/apt
/home/base/image/DMSP

Files
/home/base/image/tags

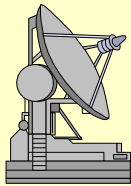
Selection

Mode ☐ Append ☒ New Archive

Files to be archived
/home/base/image/tags

Click to Deselect a File

Total Bytes



RESTORE WINDOW



Restore

Restore From ☐ Tape ☒ Disk

Mode ☐ Modification Time ☒ Extraction Time

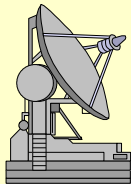
Files Archived on Device - List of files on the current archive device

Files to be Restored

Click to Deselect a File

Total Bytes

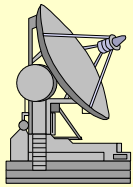
from list of files to be restored



DELETE SELECTED IMAGE FILES



| Delete Image | | | |
|---|--|---|--|
| Data Type | | <div>APT</div> <div>APT HRPT DMSP WEFAX HRGEO</div> | |
| Projection | Image Category | Image Type | DTG |
| <div>Satellite PSN PSS Mercator Composite</div> | <div>Channel_A Channel_B UserDef_Visir</div> | <div>All</div> | <div>951104_1134_N12 951104_0048_N12</div> |
| Delete | | Cancel | Help |



DELETE PRODUCT WINDOW

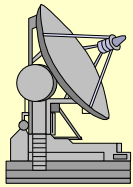


| Delete Product | | |
|---|--------------|------------------------------------|
| Class Name | Product Name | DTG |
| CIDE test | temp | 951212_1212_F12 951201_2255_F11 |
| <div>Delete</div> <div>Cancel</div> <div>Help</div> | | |

Double - clicking on a Class Name, Product Name, or a DTG deletes the selected product file after confirmation. The Delete Product window remains open.

MODULE 5a

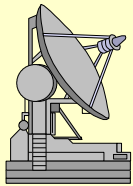
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PURGE FACTS . . .



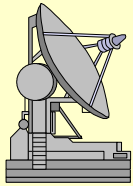
- Purging is the automatic removal of old and no longer needed data. The operator is able to view and modify the default and detailed purge setup allocations that the system uses for deletion (purging) activities.
- For APT, HRPT, DMSP and HRGEO data types, image files are retained based on the number of passes allocated.
- Composite files associated with APT, HRPT and DMSP data are retained based on the number of snapshots allocated.
- For WEFAX and Products data types, image files are retained based on the number of files allocated.
- All of the data types are also retained based on the maximum number of hours specified. Files older than the max hours are purged regardless of the number of passes or files specified to keep.
- The operator is able to view the status of the disks on the system.



PURGE SETUP WINDOW



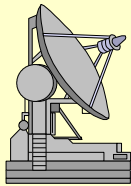
| Purge Setup | | | | |
|---|---------------------------|-------------------|----------------|-----------|
| | Number of Passes Retained | | | |
| Data Type | Satellite Projection | Other Projections | Composites | Max Hours |
| APT. . . | 10 | 6 | 4 | 998 |
| HRPT. . . | 7 | 4 | 3 | 999 |
| DMSP. . . | 30 | 6 | 4 | 999 |
| HRGEO. . . | 5 | 12 | | 999 |
| Data Type | Number of Files Retained | Max Hours | | |
| WEFAX. . . | 3 | 999 | Apply Reset | |
| Products. . . | 3 | 999 | | |
| Close Purge Now Status. . . Help | | | | |



DETAILED PURGE SETUP



- After selecting individual data type, you can specify which image or data types you want to retain more or less



DISK STATUS WINDOW

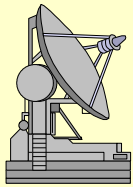


| Disk Status | |
|--------------------------|-------------------------------------|
| Data Directories on Disk | |
| | Workstation External JTFST |
| Size in Kilobytes | Directory Name |
| 2 | /disk2/base/image/HRPT/_ingest |
| 9161 | /disk2/base/image/HRPT/Channel_1/4: |
| 1 | /disk2/base/image/HRPT/Channel_1/4: |
| 1873 | /disk2/base/image/HRPT/Channel_1/4: |
| 1 | /disk2/base/image/HRPT/Channel_1/4: |
| 11037 | /disk2/base/image/HRPT/Channel_1/4: |
| 83682 | /disk2/base/image/HRPT/Channel_1/Fi |
| 1 | /disk2/base/image/HRPT/Channel_1/Fi |
| 1 | /disk2/base/image/HRPT/Channel_1/Fi |

| | |
|---------------------|--------------------|
| Kilobytes Available | 115274 |
| Kilobytes Used | 1630397 - 93% used |

Close

Help

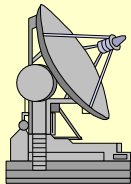


DEFAULT UNITS WINDOW



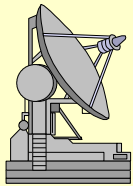
| Default Units | |
|---------------------------|--|
| Day | Day of Year <input type="checkbox"/> |
| Dewpoint | Fahrenheit <input type="checkbox"/> |
| Pressure | Millibars <input type="checkbox"/> |
| Rainfall | Inches <input type="checkbox"/> |
| Rain Rate | Inches / hour <input type="checkbox"/> |
| Snow Depth | Inches <input type="checkbox"/> |
| Temperature | Celsius <input type="checkbox"/> |
| Vertical Distance | Meters <input type="checkbox"/> |
| Wind Speed | Knots <input type="checkbox"/> |
| <div>OK Cancel Help</div> | |

NOTE: To change units for the currently displayed image only, go to View -->Changing Units . . . from the Main Image Display window.



NETWORK TABLE WINDOW

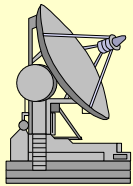
| External Systems Network Table | |
|---|--|
| Weather System | |
| CWS IMETS TAWDS | External Distribution ♦ On ♦ Off |
| Network Information for Remote Weather System | |
| Host ID | <input type="text"/> <input type="text"/> |
| Directory | /dmisp <input type="text"/> |
| <input type="button" value="View IP Address . . ."/> | |
| <input type="button" value="Apply"/> <input type="button" value="Reset"/> | |
| <input type="button" value="Close"/> | <input type="button" value="Edit System Files . . ."/> |
| <input type="button" value="Help"/> | |



PI SET DEFINITION WINDOW

| PI Set Definition | | |
|--------------------------|---|--|
| Available PI Sets | <div>20 "Regional Window Europe" 21 "Regional Window S.W. Asia" 22 "Regional Window S.E. Asia" 23 "Regional Window S. Africa" . .</div> | <div>View Map . . .</div> <div>Add</div> |
| Selected PI Sets | <div>76 "Subwindow US (East)" 78 "Subwindow US (S.E.)"</div> | <div>Remove</div> |
| <div>OKCancelHelp</div> | | |

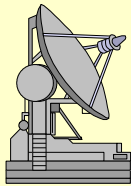
This step is required in order to ship images to the TFS/TAWDS/IMETS



PRODUCT SCHEDULE



| Product Schedule | | |
|--|--|--|
| Product Type | <input type="text" value="E D R"/> | |
| Generation Schedule | | |
| <u>time,product name,,remap</u> | | |
| <div>PASS,Quick_EDR Soil_Moisture F10_F11_F12 PASS,Quick_EDR Surface_Type F10_F11_F12 PASS,Quick_EDR Surface_Wnd_Sp F10_F11_F12 PASS,SSMI_EDR Rain_Rate_Land F10_F11_F12 PASS,SSMI_EDR Sfc_Temp_Land F10_F11_F12 PASS,SSMI_EDR Soil_Moisture F10_F11_F12 PASS,SSMI_EDR Surface_Type F10_F11_F12 PASS,SSMI_EDR Surface_Wnd_Sp F10_F11_F12 PASS,T-1/T-2 Air_Mass F10_F11_F12 PASS,T-1/T-2 Dew_Point 500 F10_F11_F12 PASS,T-1/T-2 Geostrop_Winds 200 F10_F11_F12 PASS,T-1/T-2 Gridded_Temp F10_F11_F12 PASS,T-1/T-2 Gridded_Temp 1000 F10_F11_F12</div> | | |
| <input type="button" value="Edit..."/> | <input type="button" value="Delete..."/> | <input type="button" value="Distribution..."/> |
| <input type="button" value="Close"/> | <input type="button" value="Save"/> | <input type="button" value="Help"/> |

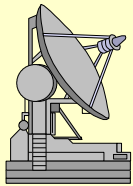


EDIT EDR GENERATION SCHEDULE



- The user is able to add and modify the EDR products by choosing the Data Source, Type, Levels based on the EDR Category: Contours and Wind Fields, and select the satellites and time parameters for automatic generation.

| Edit EDR Generation Schedule | | | | |
|--|--|--|---|-------------------------------------|
| Category <input type="text" value="Contours"/> | | | | |
| Data Source | Type | Level 1 | Level 2 | |
| <div>T-1/T-2 SSM I EDR Quick EDR UserDef_EDR</div> | <div>Cloud_Liq_Water Ice_Age Ice_Concent Ice_Edge Rain_Rate_Land</div> | | | |
| Satellites | | <input type="checkbox"/> Pass Arrival <input type="checkbox"/> Set Time | | |
| <div>F10 F11 F12</div> | | <div><input type="text" value="1"/> hhmm</div> | | |
| <input type="button" value="Close"/> | <input type="button" value="Add"/> | <input type="button" value="Modify"/> | <input type="button" value="Modify All"/> | <input type="button" value="Help"/> |



EDR DISTRIBUTION SCHEDULE

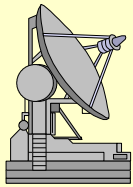


- The user is able to view the distribution schedule for a specific EDR product or all EDRs in the schedule. The user can edit and delete from the distribution schedule. *User defined EDRs can not be distributed through External Distribution.*

| Distribution Schedule | |
|--|--|
| Distribution Schedule for | |
| ◇ SSMI_EDR Rain_Rate_Land F10_F11_F12 | |
| ◇ all EDRs | |
| time,product_name, destination,remap | |
| 1745,SSMI_EDR Cloud_Liq_Water F10_F11_F12,CT | |
| <input type="button" value="Edit..."/> | <input type="button" value="Delete..."/> |
| <input type="button" value="Close"/> | <input type="button" value="Help"/> |

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EDR - EDIT DISTRIBUTION SCHEDULE



- The user is able to add and modify the destination list and time parameters for the selected EDR product.

Edit Distribution Schedule

Product Name: SSMI_EDR Cloud_Liq_Water F10_F11_F12

Destinations

C - CWS
I - IMETS
T - TAWDS

◇ Pass Arrival

◇ Set Time

1745

hhmm

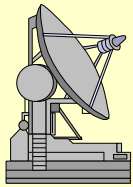
Close

Add

Modify

Modify All

Help



EDR - DELETE FROM SCHEDULE



- The user is able to remove the selected entries from the schedule. The product is highlighted in the Generation Schedule window. *The user can delete from the Product Schedule window as well.*

Delete From Schedule

Product Name: SSMI_EDR Rain_Rate_Land F10_F11_F12

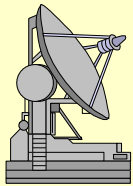
Generation and Distribution Schedule

GEN PASS,SSMR_EDR Rain_Rate_Land F10_F11_F12

Close

Delete

Help



LOG VIEWER WINDOW

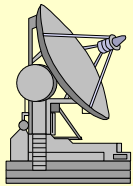


Log/Message Viewer

Log Type **Status** **Error**

| Name | File |
|------------|-----------------|
| DMDM | 940301_1451_F10 |
| Geo | 940301_1122_F11 |
| Network | 940228_2254_F11 |
| Omni | 940228_2112_F11 |
| Power Fail | 940228_1510_F10 |
| System | 940228_1135_F11 |
| Config | 940227_2307_F11 |
| Tracking | 940325_1400_F12 |
| calc_edr | |

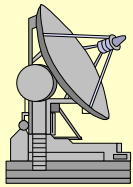
Display . . . **Help**



ERROR LOG WINDOW



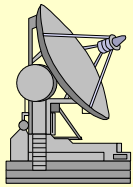
| Error Log All_Errors 941102_0300 | | | | |
|--|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| <p>Tue Mar 1 18:25:25 1994 System Config sttstart:o(252): Error attaching to Startup Synchronization semaphore. Error code:0 Exiting program Notify the system administrator</p> <p>Tue Mar 1 18:31:37 1994 UNKNOWN PROGRAM bifputils.o(130): Unable to open Time/GPS device/dev/bts14.errno-1 Notify the system administrator</p> | | | | |
| | | | | |
| <table border="0"><tr><td><input type="button" value="Close"/></td><td><input type="button" value="Print"/></td><td><input type="button" value="Help"/></td></tr></table> | | <input type="button" value="Close"/> | <input type="button" value="Print"/> | <input type="button" value="Help"/> |
| <input type="button" value="Close"/> | <input type="button" value="Print"/> | <input type="button" value="Help"/> | | |



SYSTEM SECURITY FACTS



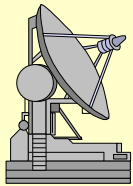
- The system unique configuration files are saved to tape or floppy using the Archive/Restore . . . option from the System Manager window.
- The AN/TMQ-43 security level is upgraded to SECRET System High at the Modify System Configuration window using a “config” login.
- The system cannot return to Unclassified until the clear/purge and restore operations are completed using the CD-ROM.
- External distribution to Unclassified systems must be turned Off and physically disconnected prior to classifying the AN/TMQ-43 SECRET System High.
- The software purge and reload process takes several hours.



SAVE CONFIGURATION



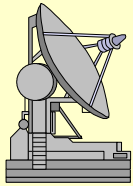
| Save Configuration | | |
|---|----------------------------|-----------------|
| Select device and press Ok to save system unique configuration files. | | |
| Save to: | <div>Floppy Tape</div> | <div>—</div> |
| <div>OK</div> | <div>Cancel</div> | <div>Help</div> |



CLASSIFICATION LEVEL UPGRADE



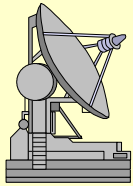
| Modify System Configuration | |
|--|---|
| Default Image Projection | <input type="text" value="PSN"/> |
| Min Acquisition Angle | <input type="text" value="10.00"/> Degrees |
| Automatic Archive | <input checked="" type="radio"/> On <input type="radio"/> Off |
| System Type | <input type="text" value="Enhanced"/> |
| Classification Level | <input type="text" value="Unclassified"/> |
| System ICAO Code | <input type="text" value="Secret"/> |
| Cold Start System | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| <input type="button" value="Set Time. . ."/> | <input type="button" value="Set Position ..."/> |
| <input type="button" value="OK"/> | <input type="button" value="Cancel"/> <input type="button" value="Help"/> |



CLEAR/PURGE, RESTORE AND RELOAD



- The clear/purge operation is initiated with a “reload” login at the Workstation.
- The clear/purge operation assumes that the revision of software is the same and that the tape or floppy with the system unique configuration files is available.
- When the purging is finished, the system will begin loading the operating system and application software, then the system configuration files.
- The CD-ROM and CD can be tested independently.

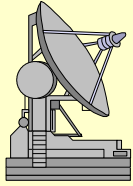


LESSON 5a.6 REVIEW



In this section we will cover:

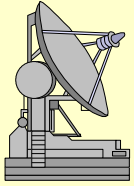
- Archiving and Restoring
- Manual Archiving
- Restoring Images and Products
- Deleting Images and Products
- Purging
- Changing system Default Units
- Network Table
- PI Set Definition



LESSON 5a.6 REVIEW (pt 2 of 2)



- Product Generation Schedule
- Status and Error Logs
- System Security and Classification
- System Purge and Reload



MODULE 5a REVIEW



■ QUESTIONS?